

ASUS Z790-AYW WIFI W Intel Z790 LGA 1700 ATX

Brand : ASUS

Product code: 90MB1HT0-M0AAY0

Product name : Z790-AYW WIFI W

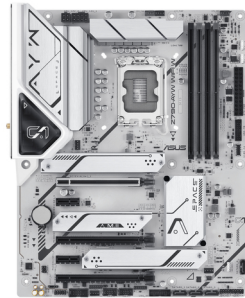
Intel Z790 Chipset, 4 x DIMM slots, Max. 192GB, DDR5 8000+, 3 x M.2 slots and 4 x SATA 6Gb/s ports

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ASUS Z790 series motherboards are expertly engineered to unleash the full potential of 14th Gen Intel® Core™ Processors. Boasting a robust power design, comprehensive cooling solutions and intelligent tuning options, Z790-AYW WIFI W provides users and PC DIY builders with a range of performance optimizations via intuitive software and firmware features. This platform delivers the power and connectivity that advanced AI PC applications demand.

FLEXIBILITY

Comprehensive controls form the foundation of the ASUS Z790 series. The Z790-AYW WIFI W motherboard packs flexible tools to tune every aspect of your system, enabling performance tweaks to perfectly match the way you work to maximize productivity.



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	USB 2.0 ports quantity *	4
Processor socket *	LGA 1700	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Compatible processor series *	Intel® Celeron®, Intel Core i3 12th Gen, Intel Core i3 13th Gen, Intel Core i3 14th Gen, Intel Core i5 12th Gen, Intel Core i5 13th Gen, Intel Core i5 14th Gen, Intel Core i7 12th Gen, Intel Core i7 13th Gen, Intel Core i7 14th Gen, Intel Core i9 12th Gen, Intel Core i9 13th Gen, Intel Core i9 14th Gen, Intel® Pentium® Gold	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	1
		USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
		Ethernet LAN (RJ-45) ports *	1
Supported processor sockets	LGA 1700	HDMI ports quantity *	1
Memory		Line-in	✓
Supported memory types *	DDR5-SDRAM	Microphone in	✓
Number of memory slots *	4	WiFi-AP antenna jack	1
Memory slots type	DIMM	Network	
Memory channels	Dual-channel	Ethernet LAN	✓
ECC compatibility	Non-ECC	Ethernet interface type	2.5 Gigabit Ethernet
Supported memory clock speeds	4800,5000,5200,5400,5600,5800,6000,6200,6400,6600,6800,7000,7200,7400,7600,7800,8000 MHz	Wi-Fi *	✓
Supported memory clock speed (max)	8000 MHz	Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Maximum internal memory *	192 GB	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Unbuffered memory	✓		
Storage controllers		Bluetooth	✓
Supported storage drive types	HDD & SSD	Bluetooth version	5.3
Supported storage drive interfaces *	M.2, SATA III	Features	
Number of HDDs supported	4	Motherboard chipset *	Intel Z790
Number of storage drives supported	7	Audio output channels *	7.1 channels
RAID support	✓	Product colour	Aluminium
RAID levels	0, 1, 5, 10	Component for *	PC
Graphics		Motherboard form factor *	ATX
Parallel processing technology support *	Not supported	Motherboard chipset family *	Intel
On-board graphics card	✗		

Internal I/O		Features	
USB 2.0 connectors *	2	Cooling type	Active
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	2	Windows operating systems supported	Windows 10 x64, Windows 11
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Expansion slots	
Number of SATA III connectors *	4	PCI Express x1 (Gen 4.x) slots	2
S/PDIF out connector	✓	PCI Express x16 (Gen 4.x) slots	3
Front panel audio connector	✓	Number of M.2 (M) slots	3
ATX Power connector (24-pin)	✓	1st M.2 largest key size	22110
CPU fan connector	✓	1st M.2 highest PCI Express generation	4.0
Number of CPU fan connectors	1	2nd M.2 largest key size	2580
Number of chassis fan connectors	3	2nd M.2 highest PCI Express generation	4.0
Peripheral (Molex) power connectors (4-pin)	1	3rd M.2 largest key size	22110
EPS power connector (8-pin)	✓	3rd M.2 highest PCI Express generation	4.0
Number of EPS power connectors (8-pin)	1	BIOS	
Number of COM connectors	1	BIOS type *	UEFI AMI
TPM connector	✓	BIOS memory size	192 Mbit
Thunderbolt headers	1	Weight & dimensions	
12V power connector	✓	Width	305 mm
		Depth	244 mm
		Packaging content	
		Cables included	SATA
		Screws included	✓

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